

## Lesson 3 Multiplication

$$\begin{array}{r} 41 \\ \times 2 \\ \hline 82 \end{array}$$

$$\begin{array}{r} 41 \\ \times 20 \\ \hline 820 \end{array}$$

$$\begin{array}{r} 56 \\ \times 3 \\ \hline 168 \end{array}$$

$$\begin{array}{r} 56 \\ \times 30 \\ \hline 1680 \end{array}$$

Multiply  
56 by 1.

$$\begin{array}{r} 56 \\ \times 31 \\ \hline 56 \end{array}$$

Multiply  
56 by 30.

$$\begin{array}{r} 56 \\ \times 31 \\ \hline 56 \\ 1680 \end{array}$$

$$\begin{array}{r} 56 \\ \times 31 \\ \hline 56 \\ 1680 \\ \hline 1736 \end{array}$$

} Add.

If  $2 \times 41 = 82$ , then  $20 \times 41 =$  \_\_\_\_\_.If  $3 \times 56 = 168$ , then  $30 \times 56 =$  \_\_\_\_\_.If  $4 \times 27 = 108$ , then  $40 \times 27 =$  \_\_\_\_\_.

Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>	<i>f</i>
1.	$\begin{array}{r} 23 \\ \times 3 \\ \hline \end{array}$	$\begin{array}{r} 23 \\ \times 30 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 2 \\ \hline \end{array}$	$\begin{array}{r} 43 \\ \times 20 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 51 \\ \times 40 \\ \hline \end{array}$

2.	$\begin{array}{r} 37 \\ \times 4 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ \times 40 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ \times 60 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ \times 9 \\ \hline \end{array}$	$\begin{array}{r} 73 \\ \times 90 \\ \hline \end{array}$
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3.	$\begin{array}{r} 42 \\ \times 30 \\ \hline \end{array}$	$\begin{array}{r} 75 \\ \times 20 \\ \hline \end{array}$	$\begin{array}{r} 54 \\ \times 40 \\ \hline \end{array}$	$\begin{array}{r} 62 \\ \times 70 \\ \hline \end{array}$	$\begin{array}{r} 84 \\ \times 60 \\ \hline \end{array}$	$\begin{array}{r} 32 \\ \times 50 \\ \hline \end{array}$
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Multiply.

	<i>a</i>	<i>b</i>	<i>c</i>	<i>d</i>	<i>e</i>
4.	$\begin{array}{r} 31 \\ \times 23 \\ \hline \end{array}$	$\begin{array}{r} 42 \\ \times 33 \\ \hline \end{array}$	$\begin{array}{r} 45 \\ \times 12 \\ \hline \end{array}$	$\begin{array}{r} 17 \\ \times 35 \\ \hline \end{array}$	$\begin{array}{r} 36 \\ \times 24 \\ \hline \end{array}$

5.	$\begin{array}{r} 54 \\ \times 26 \\ \hline \end{array}$	$\begin{array}{r} 37 \\ \times 41 \\ \hline \end{array}$	$\begin{array}{r} 28 \\ \times 16 \\ \hline \end{array}$	$\begin{array}{r} 38 \\ \times 73 \\ \hline \end{array}$	$\begin{array}{r} 46 \\ \times 28 \\ \hline \end{array}$
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Perfect score: 28    My score: \_\_\_\_\_

## FINAL TEST—Chapters 1–12

Solve each problem.

	a	b	c	d	e
1.	$\begin{array}{r} 36 \\ +57 \\ \hline \end{array}$	$\begin{array}{r} 83 \\ +79 \\ \hline \end{array}$	$\begin{array}{r} 798 \\ +135 \\ \hline \end{array}$	$\begin{array}{r} 45678 \\ +82902 \\ \hline \end{array}$	$\begin{array}{r} 7314 \\ 6452 \\ 9715 \\ + 726 \\ \hline \end{array}$

2.	$\begin{array}{r} 63 \\ -18 \\ \hline \end{array}$	$\begin{array}{r} 178 \\ -65 \\ \hline \end{array}$	$\begin{array}{r} 1270 \\ -982 \\ \hline \end{array}$	$\begin{array}{r} 59246 \\ -37095 \\ \hline \end{array}$	$\begin{array}{r} 76005 \\ -9146 \\ \hline \end{array}$
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3.	$\begin{array}{r} 73 \\ \times 6 \\ \hline \end{array}$	$\begin{array}{r} 124 \\ \times 8 \\ \hline \end{array}$	$\begin{array}{r} 785 \\ \times 5 \\ \hline \end{array}$	$\begin{array}{r} 387 \\ \times 10 \\ \hline \end{array}$	$\begin{array}{r} 420 \\ \times 32 \\ \hline \end{array}$
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4.	$\begin{array}{r} 36 \\ \times 27 \\ \hline \end{array}$	$\begin{array}{r} 59 \\ \times 40 \\ \hline \end{array}$	$\begin{array}{r} 657 \\ \times 89 \\ \hline \end{array}$	$\begin{array}{r} 526 \\ \times 154 \\ \hline \end{array}$	$\begin{array}{r} 2984 \\ \times 697 \\ \hline \end{array}$
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	a	b	c	d
5.	$6 \overline{) 78}$	$8 \overline{) 928}$	$9 \overline{) 3729}$	$51 \overline{) 6182}$

6.	$5 \overline{) 97}$	$4 \overline{) 231}$	$45 \overline{) 935}$	$93 \overline{) 27658}$
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PRE-TEST—Division

NAME \_\_\_\_\_

Chapter 4

Divide.

*a*

*b*

*c*

*d*

1.  $13 \overline{)78}$

$14 \overline{)98}$

$12 \overline{)65}$

$15 \overline{)95}$

2.  $24 \overline{)312}$

$37 \overline{)962}$

$12 \overline{)586}$

$23 \overline{)550}$

3.  $27 \overline{)3564}$

$74 \overline{)7252}$

$36 \overline{)2026}$

$34 \overline{)3830}$

4.  $16 \overline{)768}$

$52 \overline{)2724}$

$18 \overline{)310}$

$14 \overline{)56}$

5.  $34 \overline{)4284}$

$53 \overline{)2120}$

$26 \overline{)964}$

$11 \overline{)418}$

Perfect score: 20      My score: \_\_\_\_\_

# Lesson 4 Division

$$\begin{array}{r}
 235 \\
 8 \overline{)1880} \\
 \underline{1600} \\
 280 \\
 \underline{240} \\
 40 \\
 \underline{40} \\
 0
 \end{array}$$

← These should be the same. → *Check*

$$\begin{array}{r}
 235 \\
 \times 8 \\
 \hline
 1880
 \end{array}$$

$$\begin{array}{r}
 178 \text{ r}2 \\
 3 \overline{)536} \\
 \underline{300} \\
 236 \\
 \underline{210} \\
 26 \\
 \underline{24} \\
 2
 \end{array}$$

← These should be the same. → *Check*

$$\begin{array}{r}
 178 \\
 \times 3 \\
 \hline
 534 \\
 + 2 \\
 \hline
 536
 \end{array}$$

To check  $1880 \div 8 = 235$ , multiply 235 by 8. The answer should be \_\_\_\_\_.

To check  $536 \div 3 = 178 \text{ r}2$ , multiply 178 by 3 and then add 2. The answer should be \_\_\_\_\_.

Divide. Check each answer.

*a*

*b*

*c*

1.  $4 \overline{)1104}$

$8 \overline{)1760}$

$2 \overline{)4632}$

2.  $3 \overline{)379}$

$5 \overline{)421}$

$4 \overline{)762}$

3.  $3 \overline{)1058}$

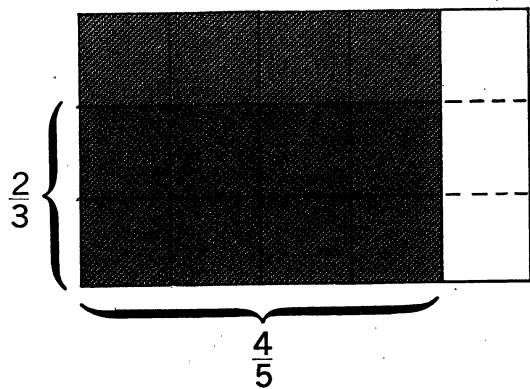
$6 \overline{)726}$

$7 \overline{)2117}$

Perfect score: 9    My score: \_\_\_\_\_

# Lesson 2 Multiplication

NAME \_\_\_\_\_



Multiply numerators

$$\frac{2}{3} \times \frac{4}{5} = \frac{2 \times 4}{3 \times 5} = \frac{8}{15}$$

Multiply denominators

$\frac{2}{3}$  of  $\frac{4}{5}$  means  $\frac{2}{3} \times \frac{4}{5}$ .

Multiply as shown.

*a*  
1.  $\frac{1}{4} \times \frac{3}{5} = \frac{1 \times 3}{4 \times 5}$   
 $= \frac{3}{20}$

*b*  
 $\frac{2}{3} \times \frac{1}{5}$

*c*  
 $\frac{1}{6} \times \frac{5}{8}$

2.  $\frac{3}{7} \times \frac{1}{4}$

$\frac{5}{9} \times \frac{1}{2}$

$\frac{6}{7} \times \frac{2}{5}$

3.  $\frac{4}{5} \times \frac{2}{3}$

$\frac{7}{8} \times \frac{1}{6}$

$\frac{1}{5} \times \frac{2}{3}$

4.  $\frac{2}{5} \times \frac{1}{7}$

$\frac{5}{6} \times \frac{1}{2}$

$\frac{2}{3} \times \frac{5}{7}$

5.  $\frac{2}{3} \times \frac{2}{5}$

$\frac{5}{8} \times \frac{3}{4}$

$\frac{2}{5} \times \frac{1}{3}$

Perfect score: 14      My score: \_\_\_\_\_